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## Abstract

Magnetic field sensor and method for the operation thereof

What is proposed is a magnetic field sensor comprising a sensor arrangement (H), which is supplied by a supply device (IH) and generates a sensor signal, comprising an evaluation device (ADC, R), to which the sensor signal is fed and which outputs a first output signal (AI), and comprising a feedback device (RV), to which the first output signal is fed and which controls the supply device. The regulation of the control loop closed with the feedback device improves the noise behavior of the magnetic field sensor. The method describes the operation of the magnetic field sensor.

Significant Figure: 1